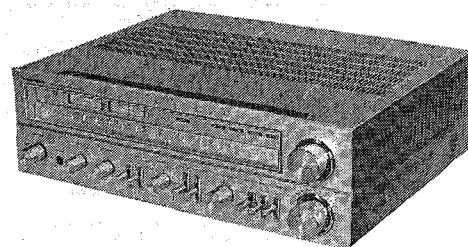


TOSHIBA

AM/FM STEREO RECEIVER

SA-750



SPECIFICATIONS

Power Output

Continuous Power Output is 50 watts per channel, min. RMS at 8 ohms or 60 watts per channel at 4 ohms from 20 to 20,000 Hertz with no more than 0.1% total harmonic distortion.

■ AMPLIFIER SECTION

Power Output

1 kHz Both Channels

Driven: 55W x 2 8 ohms
70W x 2 4 ohms

Total Harmonic Distortion

Rated Power Output: 0.1%

Intermodulation

Distortion: 0.1%

Damping Factor: 50

Input (Sensitivity/Impedance)

PHONO: 2.5 mV/47K ohms

AUX: 150 mV/47K ohms

TAPE1, 2: 150 mV/47K ohms

PHONO Overload Level: 200 mV rms at 1 kHz

Output Level

TAPE REC 1, 2: 150 mV

DIN: 30 mV

Frequency Response

PHONO (RIAA Equalization): 30 Hz to 15 kHz ± 0.3 dB

AUX, TAPE: 10 Hz to 40 kHz ± 0.5 dB

Tone Control

BASS: ± 10 dB, (100 Hz)

TREBLE: ± 10 dB, (10 kHz)

Loudness Contour: +8 dB (100 Hz),
+4 dB (10 kHz)

Signal to Noise Ratio (IHF short-circuited A network, rated power)

PHONO: 72 dB

AUX, TAPE: 95 dB

Filter

LOW: 20 Hz -6 dB/oct.

HIGH: 7 kHz -6 dB/oct.

■ FM TUNER SECTION

Usable Sensitivity: Mono 10.3 dBf (1.8 μ V)

50 dB Quieting

Sensitivity: Mono 15.3 dBf (3.2 μ V)
Stereo 38.2 dBf (45 μ V)

Signal to Noise Ratio: Mono 75 dB,
Stereo 68 dB

Distortion

100 Hz: Mono 0.15%,
Stereo 0.2%

1 kHz: Mono 0.15%,
Stereo 0.2%

6 kHz: Mono 0.2%,
Stereo 0.3%

Frequency Response: 20 to 15 kHz
+0.5 dB, -1.5 dB

Capture Ratio: 1.0 dB

Alternate Channel

Selectivity: 80 dB

Spurious Response Ratio: 100 dB

Image Rejection Ratio: 80 dB

IF Rejection Ratio: 100 dB

AM Suppression Ratio: 55 dB

Stereo Separation: 45 dB (1 kHz),
30 dB (30 to 15 kHz)

■ AM TUNER SECTION

Sensitivity: 300 μ V/m
(IHF, ferrite antenna)

Selectivity: 35 dB

Signal to Noise Ratio: 50 dB

Image Rejection Ratio: 45 dB

■ MISCELLANEOUS

Power Requirements: AC 220/240V 50 Hz

Power Consumption: 380 watts

Dimensions (W x H x D): 450 x 145 x 400 (mm)

Weight: 13 kg

CONTENTS

1. OPERATING CONTROLS	3
FRONT VIEW	3
REAR VIEW	3
2. DISASSEMBLY INSTRUCTIONS	4
CABINET REMOVAL	4
FRONT PANEL REMOVAL	4
3. DIAL CORD RESTRINGING	5
4. VOLTAGE SELECTOR SWITCH SETTING	5
5. BLOCK DIAGRAM	6
6. CIRCUIT ADJUSTMENTS	7 to 10
AM ADJUSTMENT	8
FM ADJUSTMENT	9
FM MPX ADJUSTMENT	10
SIGNAL METER ADJUSTMENT	10
IDLING ADJUSTMENT	10
7. PC BOARD PARTS LOCATIONS	11 to 12
BOTTOM VIEW OF TUNER UNIT	11
BOTTOM VIEW OF POWER UNIT	12
8. CABINET PARTS LOCATIONS	13
9. SCHEMATIC DIAGRAM	14
10. PARTS LIST	15 to 18

1. OPERATING CONTROLS

FRONT VIEW

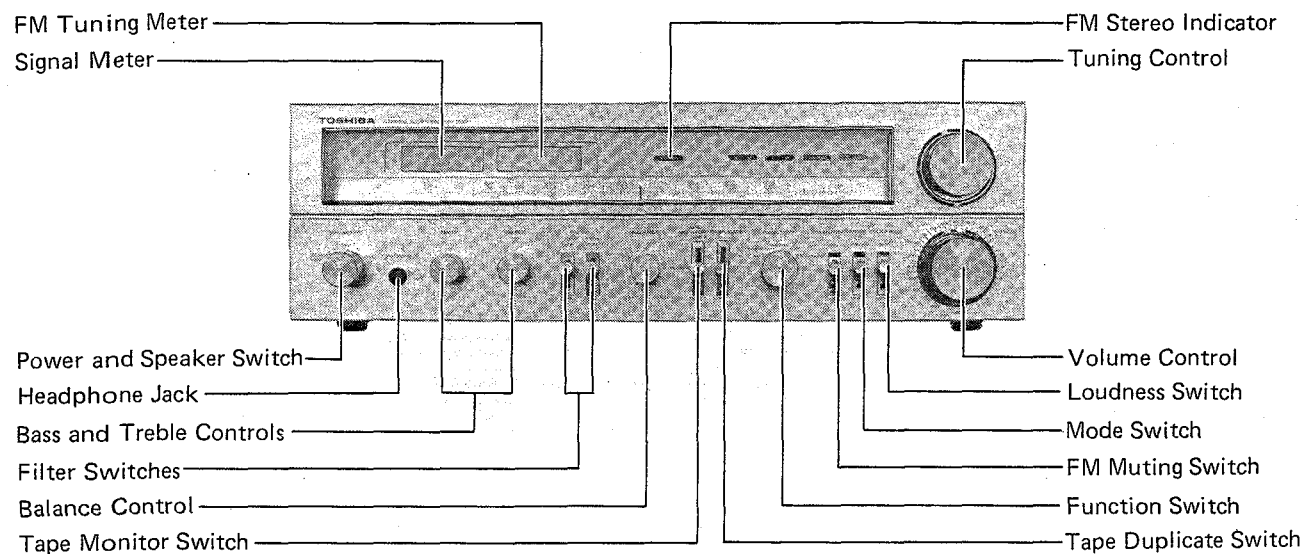


Figure 1

REAR VIEW

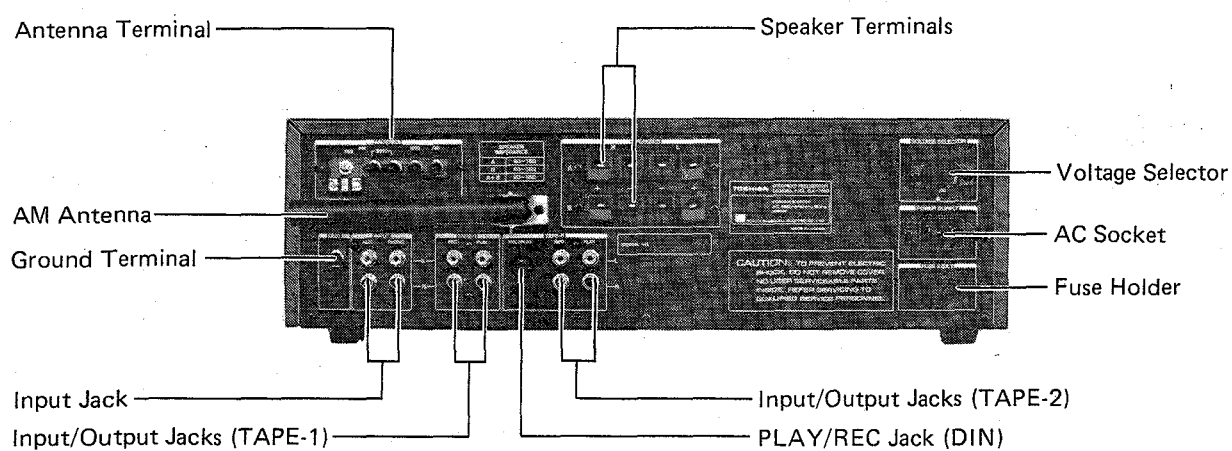


Figure 2

2. DISASSEMBLY INSTRUCTIONS

CABINET REMOVAL

1. Remove 4 screws ①. See figure 3.
2. Open the Cabinet in the direction ②.

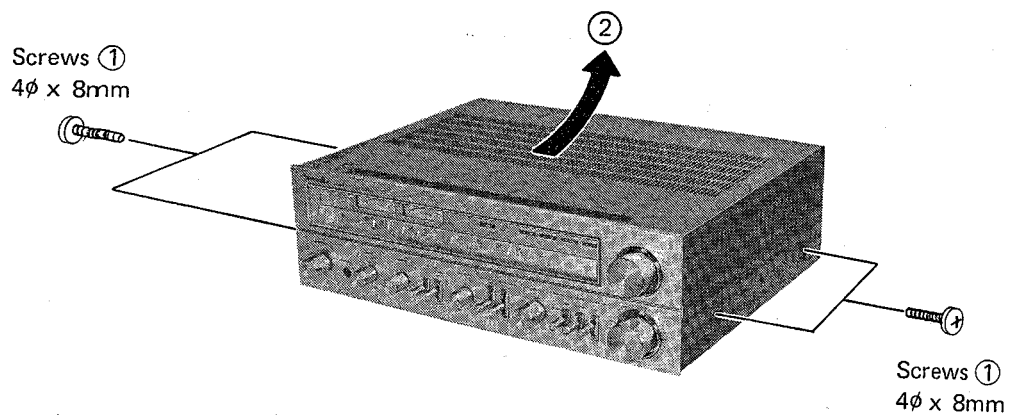


Figure 3

FRONT PANEL REMOVAL

1. Remove the Cabinet. See figure 3.
2. Remove three screws ③. See figure 4.
3. Remove the fourteen knobs ④. See figure 5.
4. Remove two nuts ⑤. See figure 6.
5. Remove the Front Panel.

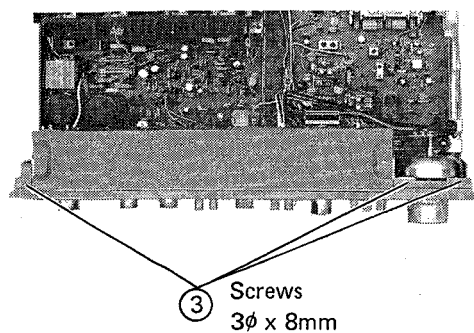


Figure 4

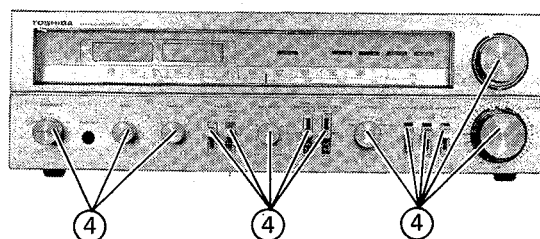


Figure 5

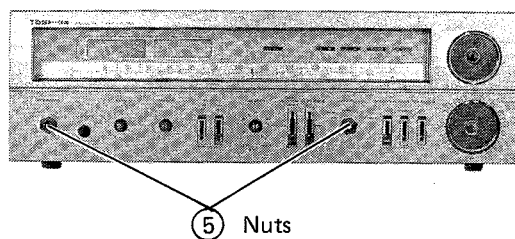
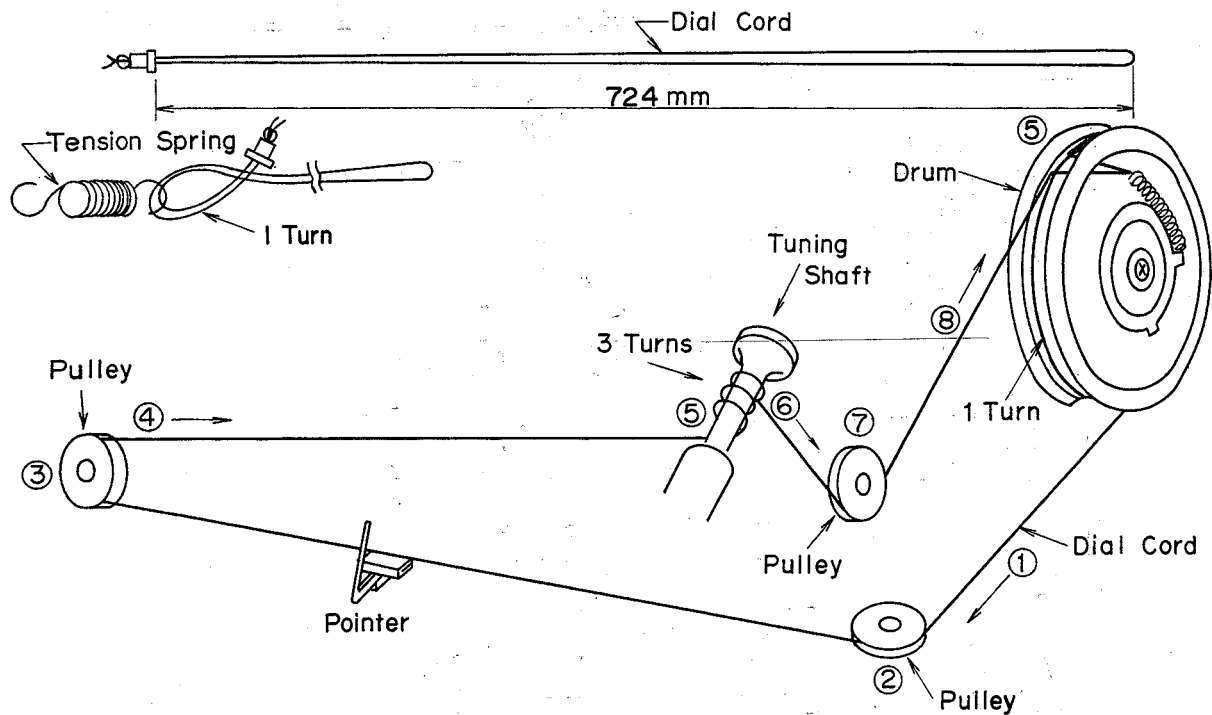


Figure 6

3. DIAL CORD RESTRINGING



4. VOLTAGE SELECTOR SWITCH SETTING

This unit is preset at the factory for the voltage used in the area of destination. Therefore, if you move or intend to use the unit in an area having a different voltage it will be necessary to reset the voltage selector located on the rear panel as follows:

Unplug the unit, insert a screwdriver in the groove in the middle of the selector and turn the screwdriver so that the correct voltage figure (220V or 240V) appears over the pointer (▲). If the electrical outlet to be used is also of a different variety, it will be necessary to use an adaptor or have a new plug installed on the AC power cord.

To replace the fuse, unplug the AC power cord, insert a coin in the fuse cap and unscrew. Then replace with a new fuse having the same rating. Using the wrong type of fuse will create a fire hazard, and poses the danger of damage to the unit.

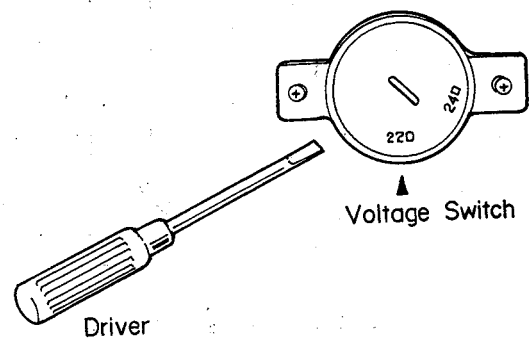


Figure 8.

5. BLOCK DIAGRAM

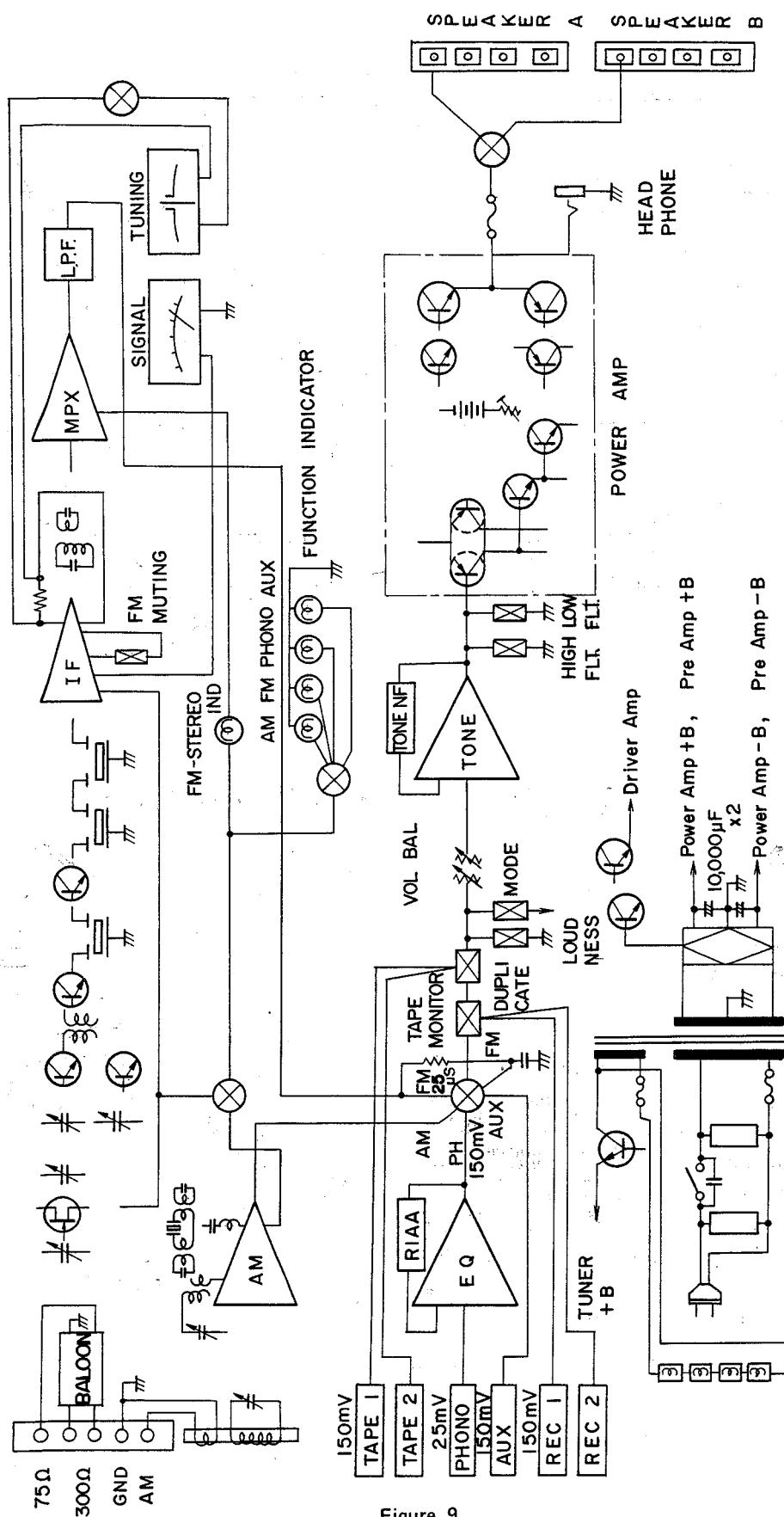


Figure 9.

6. CIRCUIT ADJUSTMENTS

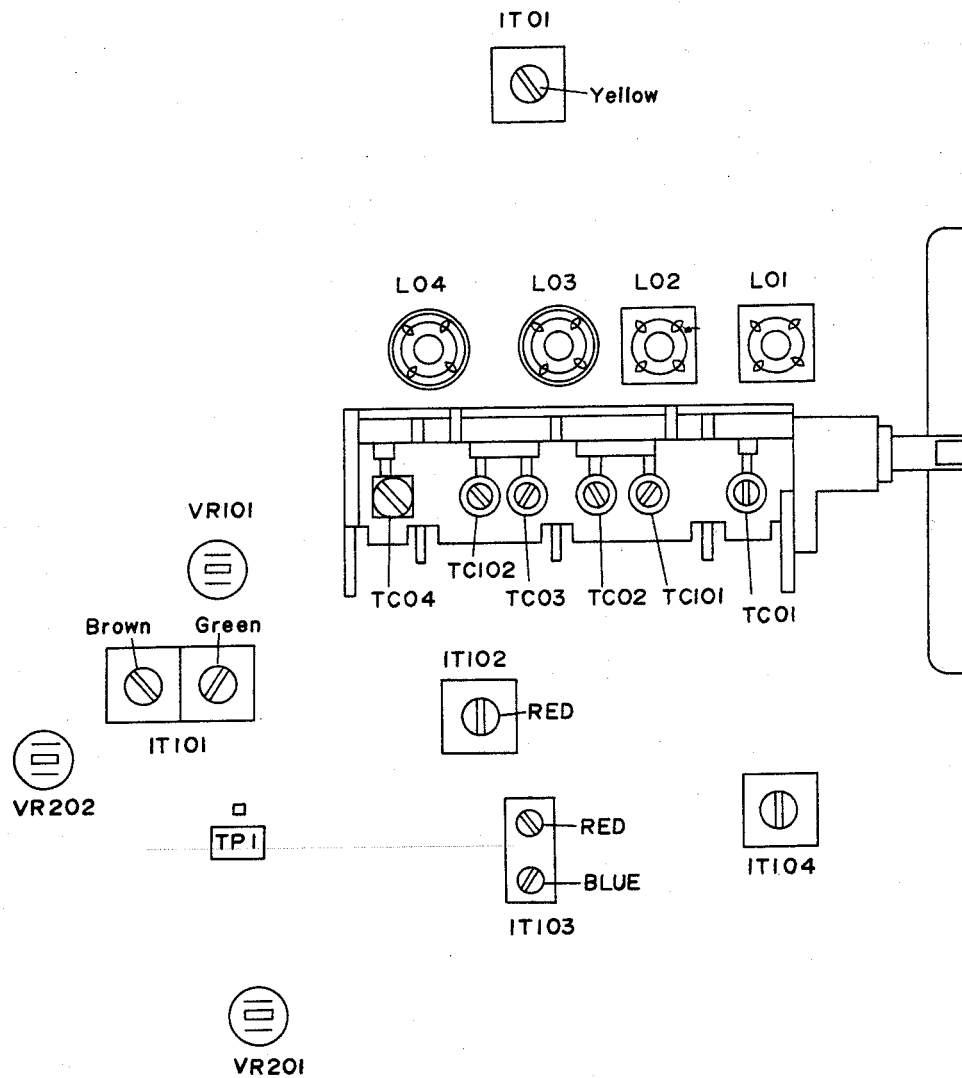


Figure 10. Top View of Tuner Unit

AM ADJUSTMENT

Test equipments/Tools required

1. Signal generator
2. Sweep generator
3. Test loop antenna
4. VTVM
5. Adjusting screwdriver
6. Adjusting screwdriver (Use to antenna core)
7. Oscilloscope

IF ADJUSTMENT

Step	Adjustment	Remarks
IF Response	IT103	Adjust for scope pattern with specified marker (455 kHz) as illustrated in Fig. 11.

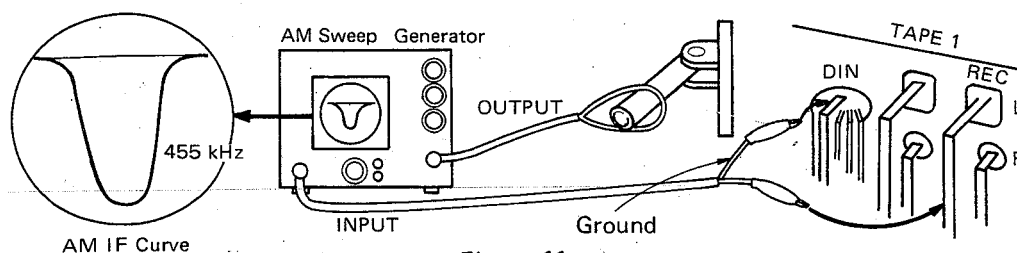


Figure 11.

FREQUENCY COVERAGE AND TRACKING ADJUSTMENT

Step	Adjusting Circuit	Connection		SG Frequency	Position of Tuning Dial	Adjustment	VTVM
		Input	Output				
1	OSC (Frequency Coverage)	Connect signal generator to test loop.	Connect VTVM to Speaker terminal A.	600 kHz (400 Hz 30% MOD.)	Tune to 600 kHz signal	IT102	Maximum
2				1400 kHz (400 Hz 30% MOD.)	Tune to 1400 kHz signal	TC102	
Repeat steps 1 and 2.							
3	ANT (Tracking)	Connect signal generator to test loop.	Connect VTVM to Speaker terminal A.	600 kHz (400 Hz 30% MOD.)	Tune to 600 kHz signal	Ferrite Ant. Coil L105	Maximum
4				1400 kHz (400 Hz 30% MOD.)	Tune to 1400 kHz signal	TC101	
Repeat steps 3 and 4.							

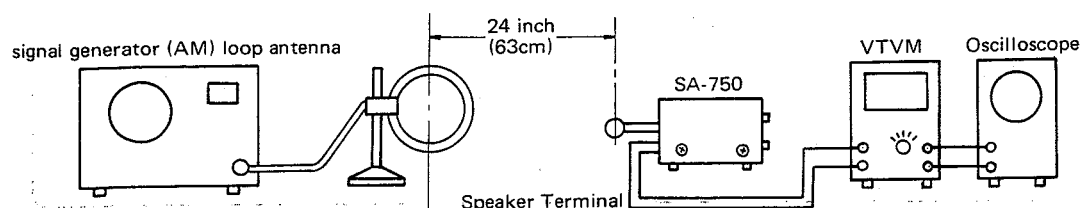


Figure 12.

FM ADJUSTMENT

Test equipments/Tools required

- | | | |
|---------------------|--------------------------------|--------------------------|
| 1. Distortion meter | 4. VTVM | 7. Network |
| 2. Signal generator | 5. FM dummy antenna (300 ohms) | 8. Adjusting screwdriver |
| 3. Oscilloscope | 6. Dummy load resistor | 9. Adjusting bar |

Step	Adjusting Circuit	Connection		SG Frequency	Position of Tuning Dial	Adjustment	
		Input	Output				
1	IF Distortion Adjustment (MONO)				No signal	IT101 (Brown Color)	Adjust tuning meter pointer so as to keep center.
2	IF Distortion Adjustment (MONO)	Connect FM signal generator to FM antenna terminal. Connect the modulator to signal generator.	Connect VTVM, oscilloscope and distortion meter to speaker terminal.	SG 98 MHz	Tune to 98 MHz signal	IT101 (Green Color)	Distortion Minimum
Repeat steps 1 and 2.							
3	Distortion Adjustment (Stereo)	Connect FM signal generator to FM antenna terminal. Connect the modulator to signal generator.	Connect VTVM, oscilloscope and distortion meter to speaker terminal.	SG 98 MHz	Tune to 98 MHz signal	IT01	Distortion Minimum
4	OSC (Frequency coverage)	Connect FM signal generator to FM antenna terminal.	Connect VTVM to speaker terminal.	88 MHz	Tune to 88 MHz signal	L01, 02	Maximum
5				108 MHz	Tune to 108 MHz signal	TC01 TC02	
Repeat steps 4 and 5.							
6	RF (Tracking)	Connect FM signal generator to FM antenna terminal.	Connect VTVM to speaker terminal.	88 MHz	Tune to 88 MHz signal	L04	Maximum
7				108 MHz	Tune to 108 MHz signal	TC04	
Repeat steps 6 and 7.							

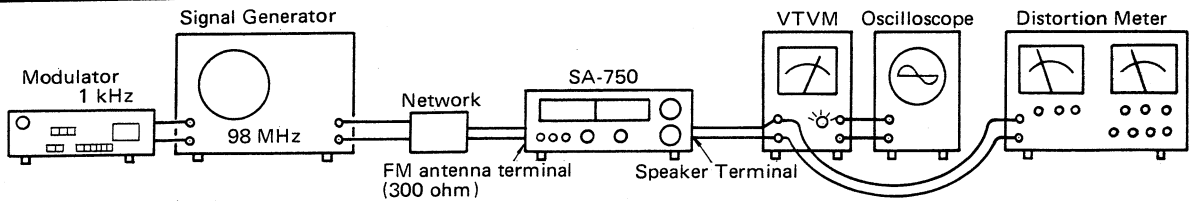


Figure 13.

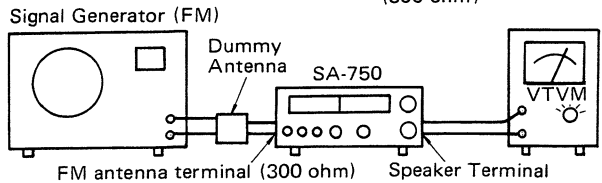


Figure 14.

FM MPX ADJUSTMENT

Test Equipments/Tools required

- | | |
|----------------------|-----------------------------|
| 1. Frequency counter | 4. VTVM |
| 2. Signal generator | 5. 300 ohm FM dummy antenna |
| 3. Stereo modulator | 6. Oscilloscope |

Pilot signal adjustment	Connect a frequency counter to the Test Point (TP1), and adjust the VR202 for 19 kHz reading counter with no-signal input.
Separation adjustment	Receive the stereo signal and adjust the VR201 for maximum channel separation. Note: Signal frequency: 98 MHz Frequency deviation: Pilot Signal 7.5 kHz L and R signals: 33.75 kHz

SIGNAL METER ADJUSTMENT (FM)

Connection	Signal Generator	Adjustment
Connect signal generator to FM antenna terminal. See figure 14.	Frequency: 98 MHz SG output: 126 dB	Adjust the VR101 so that the signal meter indicates 4.5 ~ 5.0

CAUTION: When realigning the FM Receiving Frequency, the lowest side of the frequency range must not be below 87.5 MHz in order to comply with FTZ regulations in West Germany.

IDLING ADJUSTMENT

R Channel

- Connect a tester to test Pins A(−) and A(+).
- Adjust the semi-fixed Resistor (VR501) so that the tester indicates $25\text{mV} \pm 5\text{mV}$.

L Channel

- Connect a tester to test Pins B(−) and B(+).
- Adjust the semi-fixed Resistor (VR502) so that the tester indicates $25\text{mV} \pm 5\text{mV}$.

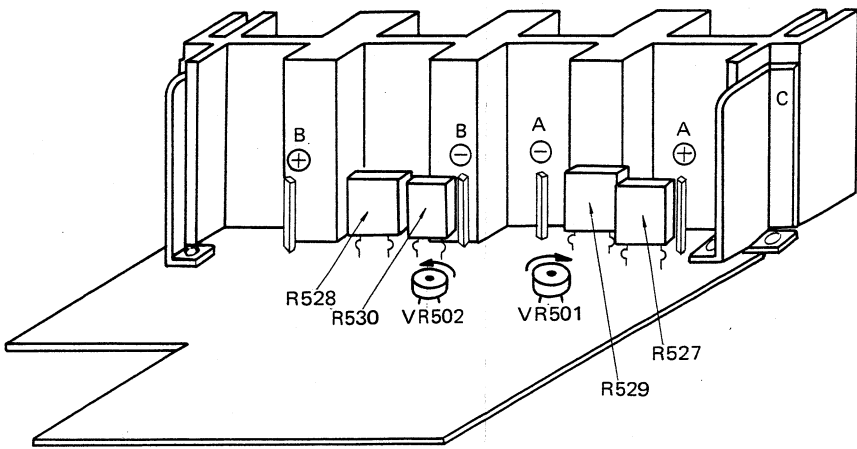


Figure 15.

7. P.C. BOARD PARTS LOCATIONS

BOTTOM VIEW OF TUNER UNIT

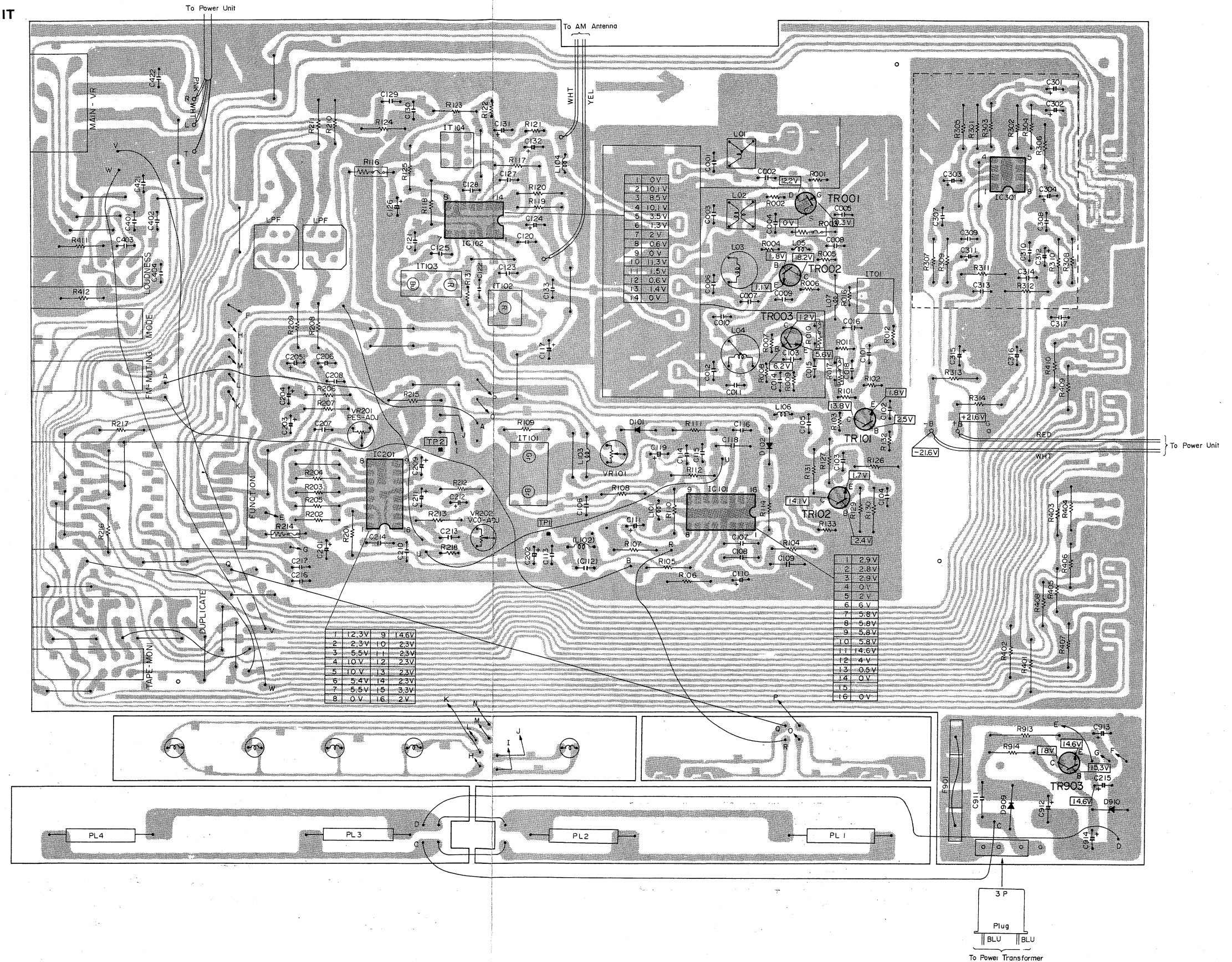


Figure 16.

8. CABINET PARTS LOCATIONS

BOTTOM VIEW OF POWER UNIT

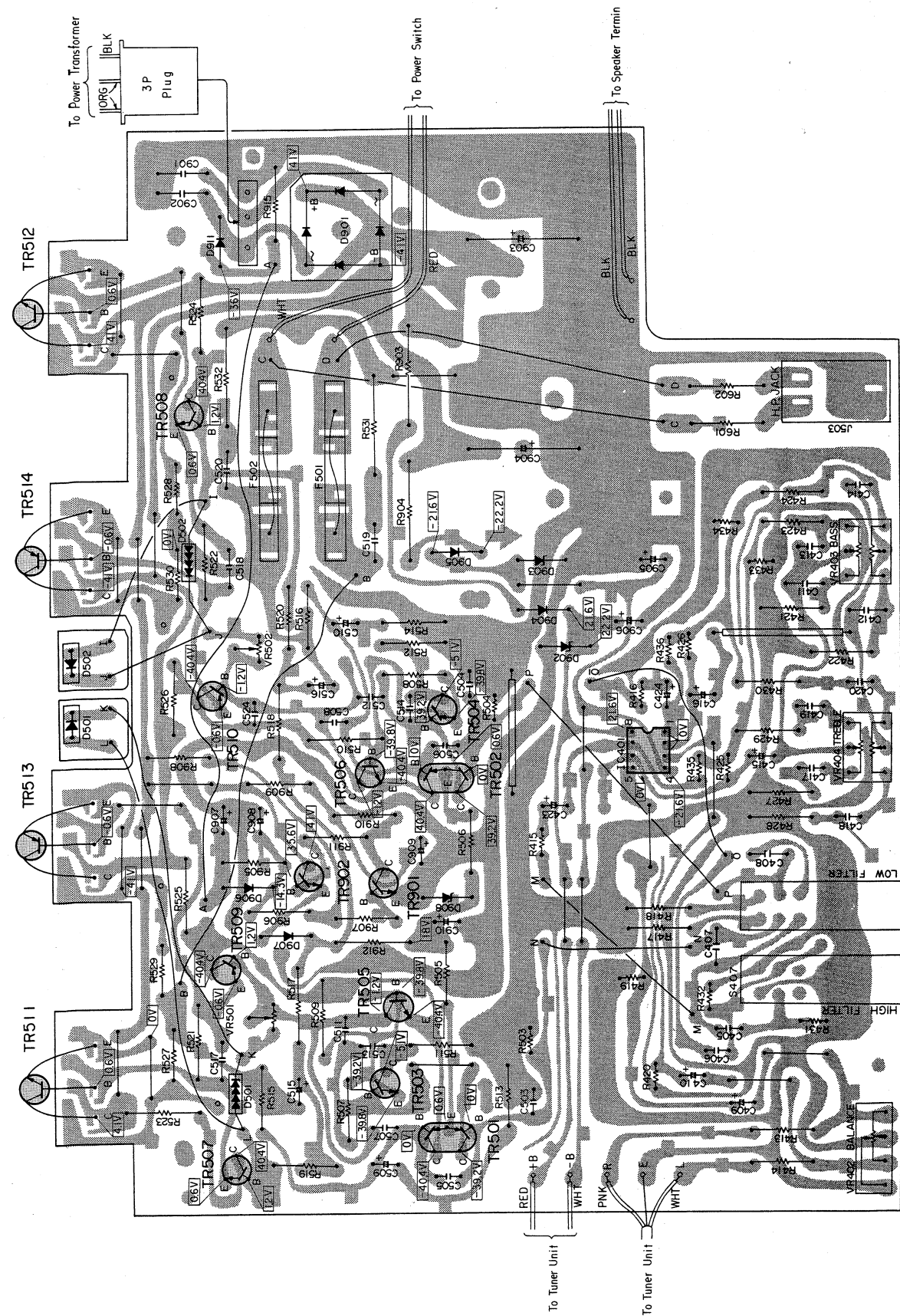


Figure 17.

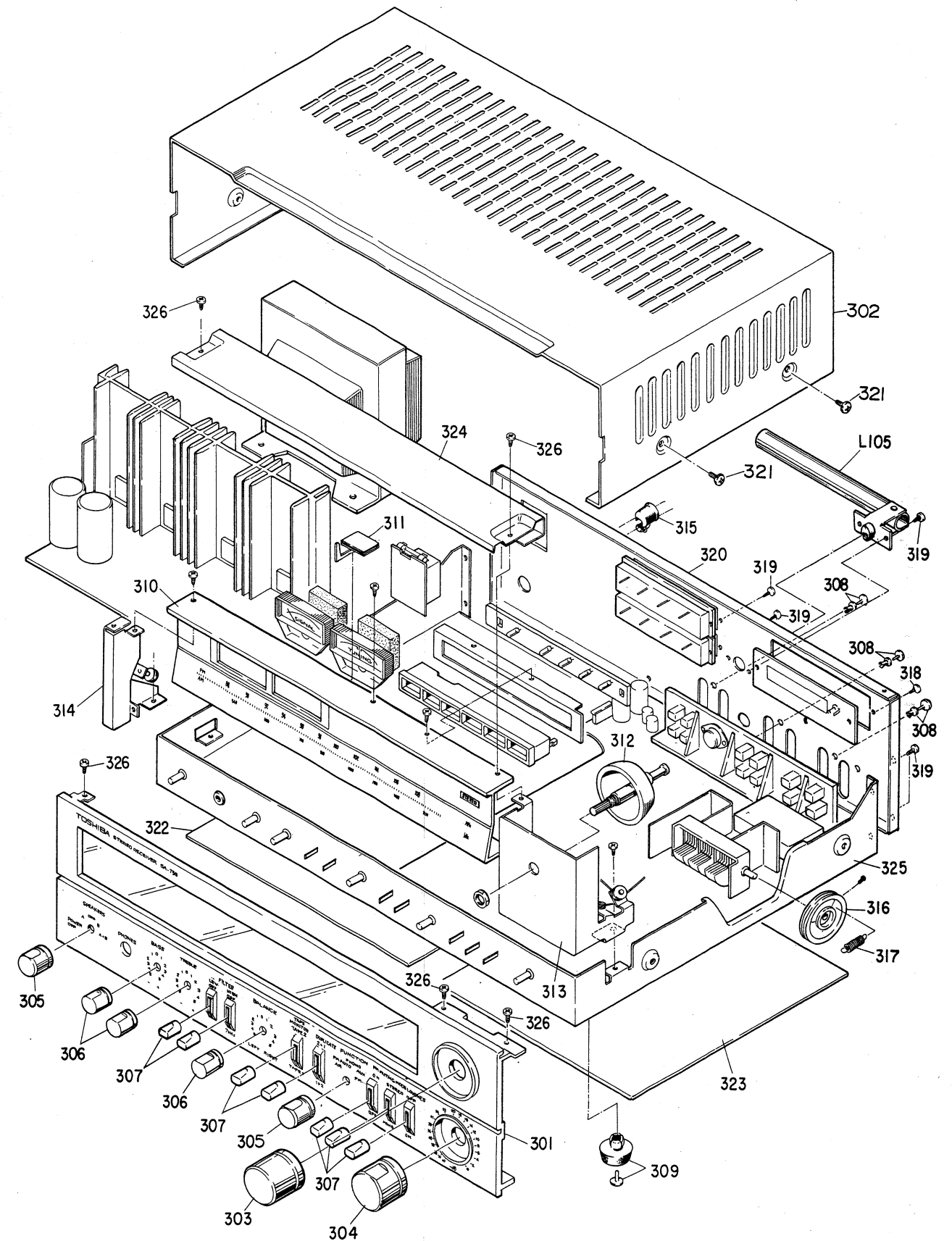
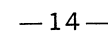


Figure 18.

NOTE: Excluded parts in the Parts List are not available as replacement parts.

SCHEMATIC DIAGRAM



10. PARTS LIST

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description	Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
CABINET PARTS			IC201	22114627	IC, μ PC1161C	CAPACITORS			C134	22360178	Ceramic, 18pF, 50V, J
301	20017115	Panel Ass'y	IC301	22114594	IC, NJM4558D-K	J = $\pm 5\%$, K = $\pm 10\%$, M = $\pm 20\%$, D = $\pm 0.5pF$, Z = -20+80%			C201	22445471	Electrolytic, 470mfd, 16V
302	22841164	Cover, Top	IC401	22114594	IC, NJM4558D-K	C001	22360315	Ceramic, 12pF, 50V, J	C202	22447100	Electrolytic, 10mfd, 35V
303	22826176	Knob Ass'y, Tuning	ELECTRICAL PARTS			C002	22343101	Ceramic, 100pF, 50V, M	C203	22448109	Electrolytic, 1mfd, 50V
304	22826177	Knob Ass'y, Volume	PL1, 2, 3, 4 PL11, 12, 13, 14, 15	22104391	Meter, Tuning	C003	22360159	Ceramic, 18pF, 50V, J	C204	22448109	Electrolytic, 1mfd, 50V
305	22826179	Knob Ass'y, Power/Function		22104390	Meter, Signal	C004	22342223	Ceramic, 0.022mfd, 50V, Z	C205	22447479	Electrolytic, 4.7mfd, 35V
306	22826196	Knob Ass'y, Bass/Treble/Balance		22113434	Lamp, Pilot, 0.2A/14V	C005	22342223	Ceramic, 0.022mfd, 50V, Z	C206	22447479	Electrolytic, 4.7mfd, 35V
307	22834984	Knob, Lever		22113383	Lamp, Indicator, 50mA/8V	C006	22360159	Ceramic, 18pF, 50V, J	C207	22321049	Polypropylene, 330pF, 50V, J
308	22705022	Rivet, Plastic, $3\phi \times 5.5mm$				C007	22361409	Ceramic, 4pF, 50V, D	C208	22321049	Polypropylene, 330pF, 50V, J
309	22828056	Leg, Rubber				C008	22362101	Ceramic, 100pF, 50V, K	C209	22448478	Electrolytic, 0.47mfd, 50V
310	20019096	Dial Scale Ass'y		22135025	Filter, Low Pass	C009	22342223	Ceramic, 0.022mfd, 50V, Z	C210	22321028	Polypropylene, 470pF, 50V, K
311	20041059	Pointer Ass'y	F501, 502	22144392	Fuse, 4A/250V	C010	22361109	Ceramic, 1pF, 50V, D	C211	22448109	Electrolytic, 1mfd, 50V
312	22749174	Shaft Ass'y, Tuning	F901	22144293	Fuse, 1.6A/250V	C011	22360310	Ceramic, 10pF, 50V, D	C212	22448339	Electrolytic, 3.3mfd, 50V
313	22719113	Pulley Ass'y, Right	F902	22144372	Fuse, 2.5A/250V	C012	22360091	Ceramic, 22pF, 50V, J	C213	22321028	Polypropylene, 470pF, 50V, K
314	22719114	Pulley Ass'y, Left	CF101, 102, 103	22153076	Ceramic Filter	C013	22360137	Ceramic, 39pF, 50V, J	C214	22372473	Mylar, 0.047mfd, 50V, K
315	25845528	Bush, Power Coard (For Europe)	JP01	22162402	Terminal, Antenna	C014	22360314	Ceramic, 10pF, 50V, D	C215	22445221	Electrolytic, 220mfd, 16V
316	22742149	Drum, Dial	P401	22163638	Jack, US12P	C015	22342223	Ceramic, 0.022mfd, 50V, Z	C216, 217	22372682	Mylar, 0.0068mfd, 50V, K
317	20866009	Spring, Dial Drum	J501, 502	22162412	Terminal, Speaker	C016	22342223	Ceramic, 0.022mfd, 50V, Z	C301, 302	22466479	Electrolytic, 4.7mfd, 25V
318	22701325	Screw (BID), $3\phi \times 8mm$	J503	22163676	Jack, Headphones	C018	22342223	Ceramic, 0.022mfd, 50V, Z	C303, 304	22447470	Electrolytic, 47mfd, 35V
319	22701326	Tapping Screw (BID), $3\phi \times 8mm$	S101	22195057	Switch, Lever, FM Muting	C101	22342103	Ceramic, 0.01mfd, 50V, Z	C307, 308	22371222	Mylar, 2200pF, 50V, J
320	20015142	Plate, Jack	S401	22146297	Switch, Rotary, Function	C102	22342223	Ceramic, 0.022mfd, 50V, Z	C309, 310	22371822	Mylar, 8200pF, 50V, J
321	22707185	Screw, $4\phi \times 8mm$	S402	22195056	Switch, Lever, Duplicate	C103	22342223	Ceramic, 0.022mfd, 50V, Z	C311, 312	22466479	Electrolytic, 4.7mfd, 25V
TRANSISTORS, DIODES AND ICS			S403	22195055	Switch, Lever, Tape Monitor	C104	22342103	Ceramic, 0.01mfd, 50V, Z	C313, 314	22372102	Mylar, 0.001mfd, 50V, K
TR001		Transistor, 2SK61-GR	S404	22195057	Switch, Lever, Mode	C105	22342223	Ceramic, 0.022mfd, 50V, Z	C315, 316	22446101	Electrolytic, 100mfd, 25V
TR002		Transistor, 2SC1923-O	S405	22195057	Switch, Lever, Loudness	C107	22342223	Ceramic, 0.022mfd, 50V, Z	C317	22342223	Ceramic, 0.022mfd, 50V, Z
TR003		Transistor, 2SC785-O	S406	22195057	Switch, Lever, Filter	C108	22342473	Ceramic, 0.047mfd, 50V, Z	C401, 402	22362101	Ceramic, 100pF, 50V, K
TR101		Transistor, 2SC1923-O	S407	22195057	Switch, Lever, Filter	C109	22342473	Ceramic, 0.047mfd, 50V, Z	C403, 404	22372103	Mylar, 0.01mfd, 50V, K
TR102		Transistor, 2SC1923-O	S901	22195076	Switch, Rotary, Power/Speaker	C110	22448109	Electrolytic, 1mfd, 50V	C405, 406	22372103	Mylar, 0.01mfd, 50V, K
TR501, 502	22114468	Transistor, 2SA798-G-DU	S902	22146707	Switch, Voltage Select	C111	22448478	Electrolytic, 0.47mfd, 50V	C407, 408	22372154	Mylar, 0.15mfd, 50V, K
TR503, 504		Transistor, 2SC1681-BL	PT901	22223124	Transformer, Power	C112	22362221	Ceramic, 220pF, 50V, K	C409, 410	22467479	Electrolytic, 4.7mfd, 35V
TR505, 506		Transistor, 2SC1628-Y	L01	22292073	Coil, Trap (0.07 μ H)	C113	22362331	Ceramic, 330pF, 50V, K	C411, 412	22372683	Mylar, 0.068mfd, 50V, K
TR507, 508		Transistor, 2SC1625-Y	L02	22294294	Coil, Trap (0.08 μ H)	C114	22342223	Ceramic, 0.022mfd, 50V, Z	C413, 414	22372153	Mylar, 0.015mfd, 50V, K
TR509, 510		Transistor, 2SA815-Y	L03	22294217	Coil, FM	C115	22342223	Ceramic, 0.022mfd, 50V, Z	C415, 416	22466479	Electrolytic, 4.7mfd, 25V
TR511, 512		Transistor, 2SD426-O	L04	22295062	Coil, FM, Oscillator	C116	22342223	Ceramic, 0.022mfd, 50V, Z	C417, 418	22372223	Mylar, 0.022mfd, 50V, K
TR513, 514		Transistor, 2SB556-O	L05	22291082	Coil, Trap (2.2 μ H)	C117	22443101	Electrolytic, 100mfd, 10V	C419, 420	22372272	Mylar, 0.0027mfd, 50V, K
TR901		Transistor, 2SC1000-BL	L07	22291082	Coil, Trap (2.2 μ H)	C118	22342473	Ceramic, 0.047mfd, 50V, Z	C421, 422	22362271	Ceramic, 270pF, 50V, K
TR902		Transistor, 2SC1000-BL	L106	22291082	Coil, Trap (2.2 μ H)	C119	22448478	Electrolytic, 0.47mfd, 50V	C423, 424	22467479	Electrolytic, 4.7mfd, 35V
TR903		Transistor, 2SC1382-Y		22290002	Transformer, Baloun	C120	22342103	Ceramic, 0.01mfd, 50V, Z	C503, 504	22372102	Mylar, 0.001mfd, 50V, K
D101		Diode, 1S1555V-JA	L101	22241036	Coil, Choke (18 μ H)	C121	22342103	Ceramic, 0.01mfd, 50V, Z	C505, 506	22362101	Ceramic, 100pF, 50V, K
D102		Diode, 1S1555V-JA	L102	22211232	Coil, RF Choke	C122	22342103	Ceramic, 0.01mfd, 50V, Z	C507, 508	22361209	Ceramic, 2pF, 50V, J
D501, 502	22115424	Diode, STV-4H	L103	22291082	Coil, Trap (2.2 μ H)	C123	22362331	Ceramic, 330pF, 50V, K	C509, 510	22443331	Electrolytic, 330mfd, 10V
D901	22115397	Diode, S5VB20-F	L104	22291082	Coil, Trap (2.2 μ H)	C124	22445100	Electrolytic, 10mfd, 16V	C511, 512	22361120	Ceramic, 12pF, 50V, J
D902, 903	22115372	Diode, RD22E	L105	22242600	Coil, Antenna, Ferrite	C125	22342103	Ceramic, 0.01mfd, 50V, Z	C513, 514	22361220	Ceramic, 22pF, 50V, J
D904, 905		Diode, 1S1555V-JA	IT01	22265727	Coil, IFT	C126	22445470	Electrolytic, 47mfd, 16V	C515, 516	22447470	Electrolytic, 47mfd, 35V
D906		Diode, 1S1555V-JA	IT101	22267349	Coil, IFT	C127	22343102	Ceramic, 0.001mfd, 50V, M	C517, 518	22372104	Mylar, 0.1mfd, 50V, K
D907		Diode, 1S1553	IT102	22245288	Coil, Oscillator	C128	22342103	Ceramic, 0.01mfd, 50V, Z	C519, 520	22372104	Mylar, 0.1mfd, 50V, K
D908		Diode, 02Z18A	IT103	22264641	Coil, IFT	C129	22447479	Electrolytic, 4.7mfd, 35V	C901, 902	22340032	Ceramic, 0.022mfd, 500V, Z
D909		Diode, 1S1885	IT104	22264744	Coil, IFT	C130	22372103	Mylar, 0.01mfd, 50V, K	C903, 904	22430074	Electrolytic, 10000mfd, 50V
D910		Diode, 02Z15A		22167811	AC Socket, 3P (For England/ Australia)	C131	22448339	Electrolytic, 3.3mfd, 50V	C905, 906	22446221	Electrolytic, 220mfd, 25V
D911		Diode, 1S1553				C132	22448109	Electrolytic, 1mfd, 50V	C907, 908	22448100	Electrolytic, 10mfd, 50V
IC101	22114443	IC, LA1230				C133	22360178	Ceramic, 18pF, 50V, J	C909	22448470	Electrolytic, 47mfd, 50V
IC102	22114472	IC, HA1151							C910	22447479	Electrolytic, 4.7mfd, 35V
									C911	22340032	Ceramic, 0.022mfd, 500V, Z

Symbol No.	Part No.	Description
C912	22446102	Electrolytic, 1000mfd, 25V
C913	22445101	Electrolytic, 100mfd, 16V
C914	22445471	Electrolytic, 470mfd, 16V
C915	22340090	Ceramic, 0.0047mfd, 250V, Z
VC01	22307106	Variable Capacitor
RESISTORS		
All resistors are 1/4W, 5%, carbon film unless otherwise noted. K = $\pm 10\%$, J = $\pm 5\%$		
R001	22555104	100K ohm
R002	22555470	47 ohm
R003	22500122	Fusible, 100 ohm, 1/4W, J
R004	22545223	22K ohm
R005	22555124	120K ohm
R006	22555102	1K ohm
R007	22555393	39K ohm
R008	22555103	10K ohm
R009	22555152	1.5K ohm
R010	22500122	Fusible, 100 ohm, 1/4W, J
R011	22545221	220 ohm
R012	22555271	270 ohm
R016	22555183	18K ohm
R017	22500122	Fusible, 100 ohm, 1/4W, J
R101	22545473	47K ohm
R102	22555103	10K ohm
R103	22545331	330 ohm
R104	22545331	330 ohm
R105	22545153	15K ohm
R106	22545104	100K ohm
R107	22545821	820 ohm
R108	22545392	3.9K ohm
R109	22545272	2.7K ohm
R110	22545682	6.8K ohm
R111	22545123	12K ohm
R112	22545222	2.2K ohm
R114	22545274	270K ohm
R116	22500122	Fusible, 100 ohm, 1/4W, J
R117	22545151	150 ohm
R118	22545392	3.9K ohm
R119	22545182	1.8K ohm
R120	22545562	5.6K ohm
R121	22545103	10K ohm
R122	22545103	10K ohm
R123	22545272	2.7K ohm
R124	22545473	47K ohm
R126	22545331	330 ohm
R127	22545223	22K ohm
R129	22545472	4.7K ohm
R130	22545101	1K ohm
R131	22545471	470 ohm
R132	22545102	1K ohm

Symbol No.	Part No.	Description
R133	22555331	330 ohm
R201	22545473	47K ohm
R202	22545223	22K ohm
R203	22555223	22K ohm
R204	22545473	47K ohm
R205	22545473	47K ohm
R206	22555103	10K ohm
R207	22555103	10K ohm
R208	22545332	3.3K ohm
R209	22545332	3.3K ohm
R210	22545332	3.3K ohm
R211	22545332	3.3K ohm
R212	22545102	1K ohm
R213	22545153	15K ohm
R214	22500122	Fusible, 100 ohm, 1/4W, J
R215	22570264	Metal Oxide Film, 150 ohm, 1W
R216, 217	22545332	3.3K ohm
R218	22545104	100K ohm
R301, 302	22545473	47K ohm
R303, 304	22545222	2.2K ohm
R305, 306	22545681	680 ohm
R307, 308	22545333	33K ohm
R309, 310	22545394	390K ohm
R311, 312	22545473	47K ohm
R313, 314	22545221	220 ohm
R401, 402	22545223	22K ohm
R403, 404	22555104	100K ohm
R405, 406	22545394	390K ohm
R407, 408	22545332	3.3K ohm
R409, 410	22545332	3.3K ohm
R411, 412	22545273	27K ohm
R413, 414	22545102	1K ohm
R415, 416	22555222	2.2K ohm
R417, 418	22545824	820K ohm
R419, 420	22555104	100K ohm
R421, 422	22545472	4.7K ohm
R423, 424	22545223	22K ohm
R425, 426	22545474	470K ohm
R427, 428	22545102	1K ohm
R429, 430	22545561	560 ohm
R431, 432	22545105	1M ohm
R433, 434	22555222	2.2K ohm
R435, 436	22555471	470 ohm
R503, 504	22545563	56K ohm
R505, 506	22545183	18K ohm
R507, 508	22545272	2.7K ohm
R509, 510	22570270	Metal Oxide Film, 470 ohm, 1W
R511, 512	22545472	4.7K ohm
R513, 514	22545272	2.7K ohm
R515, 516	22545563	56K ohm
R517, 518	22570278	Metal Oxide Film, 2.2K ohm, 1W
R519, 520	22545332	3.3K ohm
R521, 522	22570266	Metal Oxide Film, 220 ohm, 1W

Symbol No.	Part No.	Description
R523, 524	22570250	Metal Oxide Film, 10 ohm, 1W
R525, 526	22570250	Metal Oxide Film, 10 ohm, 1W
R527, 528	22500187	Wire Wound, 0.47 ohm, 5W, K
R529, 530	22500187	Wire Wound, 0.47 ohm, 5W, K
R531, 532	22570295	Metal Oxide Film, 10 ohm, 2W
R601, 602	22570268	Metal Oxide Film, 330 ohm, 1W
R903	22570321	Metal Oxide Film, 1.5K ohm, 2W
R904	22570321	Metal Oxide Film, 1.5K ohm, 2W
R905	22545104	100K ohm
R906	22545683	68K ohm
R907	22545101	100 ohm
R908	22545224	220K ohm
R909	22545683	68K ohm
R910	22545471	470 ohm
R911	22545103	10K ohm
R912	22570278	Metal Oxide Film, 2.2K ohm, 1W
R913	22570311	Metal Oxide Film, 220 ohm, 2W
R914	22545152	1.5K ohm
R915	22563682	Solid, 6.8K ohm, 1/2W, K
VR101	22658318	Semi-fixed, 4.7K ohm
VR201	22658282	Semi-fixed, 470K ohm
VR202	22658257	Semi-fixed, 10K ohm
VR401	22651469	Variable, 250K ohm
VR402	22620014	Variable, 250K ohm
VR403	22651431	Variable, 100K ohm
VR404	22651431	Variable, 100K ohm
VR501	22658152	Semi-fixed, 330 ohm
VR502	22658152	Semi-fixed, 330 ohm
ACCESSORIES		
	20951357	Owner's Manual (For Europe)
	20951373	Owner's Manual (For England/Australia)
	22124452	Feeder, Antenna